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## Education

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### Stevens Institute of Technology

B.S./M.S., Computer Science

Sept. '17 - May '21

GPA: 3.92

Honors: Edward A. Stevens Scholarship, Dean's List,

Member of the International Computer Science Honor Society

Courses: Algorithms, Data Structures, Machine Learning, Concurrent Programming

## Experience

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### Full Stack Software Developer Intern - IBM

Jun '19 - Aug '19

Ant, Gradle, Python, Java

- Add resilience features which reduce build pipeline failures by 4%
- Aid in open sourcing 20 packages of Open Liberty
- Add automation tools by writing Python/Gradle scripts to reduce developer conversion time by 17%

### Course Assistant - Stevens Institute of Technology

Jan '19 - Dec '19

Scheme, C++, C, OCaml, Python

- Assisted for Discrete Structures/Algorithms/Systems Programming
- Provide aid in grading over 100 students' assignments
- Hold office hours where I help students with both theoretical and programming problems
- Run lab sections where I teach problem solving methods and programming concepts
- Build test scripts to help validate student homework solutions

## Programming Projects

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### DABNet (Personal Project)

Jun '19 - Present

PyTorch, OpenCV, Python, NumPy

- Use **OpenCV** for image processing and **PyTorch** to build convolutional neural networks for image classification and object detection
- Utilize deep reinforcement learning algorithms to optimize a neural network using input parameters resulting from a computer vision pipeline
- Able to have a 5 round win streak against random human players in a lobby

### Cryptocurrency Predictor (Personal Project)

Feb '18 - Jun '18

BeautifulSoup4, Tensorflow, Python

- Create a machine learning pipeline to predict cryptocurrency prices using on information on coinmarketcap
- Create a neural network which has a .002 mean square cross validation error on the Loki cryptocurrency

### We Are The Last Words (Personal Project)

Feb '18 - Jun '18

Django, Python, SQLite3, HTML, CSS, JavaScript, Bootstrap

- Develop the back end and front end of an active blogging web application that has an average monthly view count of 12,000

## Programming Skills

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**Experienced With:** Python, Linux, HTML, CSS, JavaScript, C **Familiar with** C++, Java, SQL

**Machine Learning:** NumPy, PyTorch, Tensorflow, Keras, SciKit-Learn

**Full Stack Web Development:** Flask, Django, Vue.js, Express

**DevOps Technologies:** Docker, Kubernetes, Gradle, Ant

**Database Technologies:** PostgreSQL, MongoDB, SQLite3

## Awards

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**Won Best Usage of Twilio API at HackTCNJ 2018** - For the project Panic Button

**STEM project 1st place in Rutgers Junior Science and Humanities Symposium** - For the project building a construction robot